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NOTICE OF ALLOWANCE AND FEE(S) DUE

24997

7590

12/12/2008

MILLEN, WHITE, ZELANO & BRANIGAN, PC 2200 CLARENDON BLVD SUITE 1400 ARLINGTON, VA 22201 EXAMINER

BERNSHTEYN, MICHAEL

ART UNIT PAPER NUMBER

1796

DATE MAILED: 12/12/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542.019	07/11/2005	Bernd Papenfuhs	KURARAY-8	8194

TITLE OF INVENTION: CROSSLINKED POLYVINYL ACETALS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
2200 CLARENI SUITE 1400	OON BLVD	/2008 BRANIGAN, PC			Carti	ficate	of Mailing or Transr	
ARLINGTON, V	VA 22201							(Depositor's name)
								(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	F	ATTOF	RNEY DOCKET NO.	CONFIRMATION NO.
10/542,019 ITLE OF INVENTION	07/11/2005 E: CROSSLINKED POL	YVINYL ACETALS	Bernd Papenfuhs			K	TURARAY-8	8194
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/12/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
BERNSHTEY	N, MICHAEL	1796	525-061000	_				
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, altern (2) the name of a si registered attorney	e of a single firm (having as a member a torney or agent) and the names of up to patent attorneys or agents. If no name is				
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on th T a substitute for filing (B) RESIDENCE: (Cl	e pat an a	tent. If an assignee ssignment. and STATE OR CC	UNTI	RY)	ocument has been filed for up entity
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a. Applicant claim	tus (from status indicated is SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no		-			·=· · ·
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application. Confident bmitting the completed is form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is depending upon the ire Chief Information Of	esti: idivi: fficer	mated to take 12 mi dual case. Any com : U.S. Patent and T	inutes iments radem	to complete, including on the amount of tin ark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/542,019	07/11/2005	Bernd Papenfuhs	KURARAY-8	8194		
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MILLEN, WHITE, ZELANO & BRANIGAN, PC			BERNSHTEYN, MICHAEL			
2200 CLARENDO	N BLVD	ART UNIT	PAPER NUMBER			
SUITE 1400 ARLINGTON, VA 22201			1796 DATE MAILED: 12/12/200	8		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 655 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 655 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/542,019	PAPENFUHS ET AL.					
Notice of Allowability	Examiner	Art Unit					
	MICHAEL M. BERNSHTEYN	1796					
	WICHALL W. BLINGTHLIN	1790					
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS					
1. This communication is responsive to <u>09/10/2008</u> .							
2. The allowed claim(s) is/are <u>1-38</u> .							
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 							
Certified copies of the priority documents have Certified copies of the priority documents have							
Copies of the certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •						
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application from the					
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• •					
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ☐ Examiner's Amend	te					
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	<u> </u>	ent of Reasons for Allowance					
of Biological Material 9. ☐ Other							
/Michael M. Bernshteyn/							
Examiner, Art Unit 1796							

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DETAILED ACTION

1. This Office Action is a response to the remarks filed September 10, 2008. Claims 1-20 and 22 have been amended; claims 23-38 have been added; no claims have been cancelled.

- 2. In view of the amendment(s) and remarks, the objection of claims 5 and 8-12, the rejection of claims 20 and 22 under 35 U.S.C. §112, 2nd paragraph, the rejection of claims 1-11 and 15 under 35 U.S.C. §102(b) as being anticipated by Fuss et al. (U. S. Patent 6,808,858), and the rejection of claims 13, 14, 18-20 and 22 under 35 U.S.C. 103(a) as being unpatentable over Fuss et al. in view of D'Alelio (U. S. Patent 2,332,889) have been withdrawn.
- 3. Claims 1-38 are now pending.

Allowable Subject Matter

- 4. Claims 1-38 are allowed.
- 5. The following is examiner's statement of reasons for allowance:

The present claims are allowable over the closest reference: Fuss et al. (U. S. Patent 6,808,858).

Fuss discloses a light-sensitive composition containing: (i) at least one diazonium polycondensation product or at least one system that can be radically polymerized and. consists of photoinitiators and unsaturated compounds; (ii) at least one binding agent and optionally one or more exposure indicators, one or more dyes for increasing the image contrast and one or more acids for stabilizing the light-sensitive composition

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which is characterized in that the binding agent essentially consists of units (A, B, C, D) (abstract).

The component B being present in an amount of from 0.1 to 60 mol %, preferably from 20 to 55 mol %, and corresponding to the formula

This group of monomers is readable in applicant's claims as being monomer a).

The component C being present in an amount of from 10 to 80 mol %, preferably from 25 to 65 mol %, and corresponding to the formula

in which R² is a hydrogen atom, an alkyl radical having from 1 to 10 carbon atoms which may be unsubstituted or substituted with at least one carboxyl group, sulfonic acid group, hydroxyl group or at least one halogen atom, preferably a methyl, ethyl or propyl group, or an aryl group which may be unsubstituted or substituted with at least one alkyl group, carboxyl group, sulfonic acid group, hydroxyl group or at least one halogen atom, it being possible for this unit to be present several times with different radicals R2 independently of one another.

This group of monomers is readable in applicant's claims as being monomer b).

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The component D being present in an amount of from 1 to 20 mol %, preferably from 2 to 8 mol %, and corresponding to the formula

in which R^3 is a hydrogen atom or alkyl radical having 1 to 10 carbon atoms, which may be unsubstituted or substituted by a carboxyl group, R^3 preferably being a hydrogen atom, a methyl group or $-CH_2COOH$ group (col. 3, line 46 through col. 4, line 21).

However, Fuss does not disclose or fairly suggests the monomer units of applicants group (d), nor does it suggest the reaction of a polyvinylacetal with a polyaldehyde in accordance with applicants' formula (5), nor does it demonstrate crosslinking a polyvinylacetal as per newly amended claim 1. Also Fuss does not disclose or fairly suggests at least partially esterifying groups in accordance with applicants' formula (1) and formula (4a) of polymer (A1).

- 6. As of the date of this Notice of Allowability, the Examiner has not located or identified any reference that can be used singularly or in combination with another references including Fuss et al. to render the present invention anticipated or obvious to one of ordinary skill in the art.
- 7. In the light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delay, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL M. BERNSHTEYN whose telephone number is (571)272-2411. The examiner can normally be reached on M-Th 8-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael M. Bernshteyn/ Examiner, Art Unit 1796

Art Unit: 1796

/M. M. B./ Examiner, Art Unit 1796

/Randy Gulakowski/ Supervisory Patent Examiner, Art Unit 1796